

WHAT IS CLAIMED IS:

1. A cutter cassette mechanism including a cutter cassette movably holding a cutting blade therein, comprising:

a holding mechanism for holding the cutting blade therein in a completely inserted state;

an extending mechanism for extending the cutting blade outwardly;  
and

an opening on the outside surface for operating the extending mechanism by using an external driving mechanism,

wherein the extending mechanism extends the cutting blade in synchronization with the external driving mechanism, the extending mechanism including a first rack formed on the side of a case holder and a second rack formed on the side of the cutting blade, the cutting blade being slidably provided directly within the case holder, the first rack being formed in parallel with the opening formed on the side of the case holder, and the second rack being formed in parallel with the first rack and facing the opening.

2. A cutter cassette mechanism including a cutter cassette singly holding the cutting blade therein in a completely inserted state, comprising:

a holding mechanism for holding the cutting blade therein in a completely inserted state;

an extending mechanism for extending the cutting blade outwardly;  
and

an opening on the outside surface for operating the extending mechanism by using an external driving mechanism,

wherein the extending mechanism extends the cutting blade in synchronization with the external driving mechanism, the extending mechanism including a first rack formed on the side of a case holder and a second rack formed on the side of the cutting blade being slidably provided directly within the case holder, the first rack being formed in parallel with the opening formed on the side of the case holder, and the second rack being formed in parallel with the first rack and facing the opening.

3. A cutter cassette mechanism including a cutter cassette comprising:

a case holder for directly slidably housing a cutting blade therein;

a holding mechanism for holding the cutter case in the case holder in a completely inserted state;

an extending mechanism for extending the cutter case out from the case holder so as to project the cutting blade from the case holder; and

an opening on the outside surface for operating the extending mechanism by using an external driving mechanism,

wherein the extending mechanism includes a first rack formed on the side of the case holder and a second rack formed on the side of the cutting blade being slidably provided directly within the case holder, the first rack being formed in parallel with the opening formed on the side of the case holder, and the second rack being formed in parallel with the first rack and facing the opening.

4. The cutter cassette mechanism according to Claim 3, wherein:

the cutting blade includes a first protrusion protruding outwardly;

and

the case holder includes a second protrusion protruding inwardly;  
wherein

the first protrusion and the second protrusion are engaged with each other to form the holding mechanism for holding the cutting blade in the case holder in a completely inserted state.

5. The cutter cassette mechanism according to Claim 4, wherein the case holder further includes a third protrusion protruding outwardly or inwardly, pushes the first protrusion inwardly by the third protrusion, and disengages the first protrusion from the second protrusion, thereby constituting a release mechanism for releasing the holding mechanism.

6. The cutter cassette mechanism according to Claim 3, wherein:  
the holding mechanism is a spring engaged with the cutting blade and the case holder; and

the cutting blade is held in the case holder in a completely inserted state by the elasticity of the spring.

7. The cutter cassette mechanism according to Claim 3, wherein:  
the holding mechanism is magnets each engaged with the cutting blade and the case holder; and

the cutting blade is held in the case holder in a completely inserted state by the attraction of the magnets.

8. The cutter cassette mechanism according to Claim 3, wherein:  
the holding mechanism is implanted hair engaged with the cutting blade and the case holder; and

the cutting blade is held in the case holder in a completely inserted state by the friction of the implanted hair.

9. The cutter cassette mechanism according Claim 1, further

comprising an engaging portion with which a positioning member for positioning and fixing the cutter cassette in an operative state is engaged.

10. A cutting device using the cutter cassette according to Claim 1, comprising a driving mechanism for shifting the cutting blade into an operative state when the cutter cassette is mounted to a cutter-cassette mounting portion.

11. The cutting device according to Claim 10, wherein the driving mechanism includes at least one gear, and extends the cutting blade in the case holder in synchronization with the operation of pushing the cutter cassette, thereby shifting the cutting blade into an operative state.

12. The cutting device according to Claim 10, wherein the driving mechanism includes at least one gear, and extends the cutting blade in the case holder after the cutter cassette has been pushed in, thereby shifting the cutting blade into an operative state.

13. The cutting device according to Claim 10, wherein the driving mechanism includes an actuating rod in the cutting device, and extends the cutting blade in the case holder after the cutter cassette has been pushed in, thereby shifting the cutting blade into an operative state.

14. The cutting device according to Claim 10, wherein the driving mechanism includes an actuating rod on the side of the cutter cassette, and extends the cutting blade in the case holder in synchronization with the operation of pushing the cutter cassette, thereby shifting the cutting blade into an operative state.

15. The cutting device according to Claim 10, wherein:

the driving mechanism is a cam groove provided in the cutting device; and

the extending mechanism is a protrusion connected with a rotary blade provided on the cutter cassette; wherein

the cam groove and the protrusion are engaged with each other in synchronization with the operation of pushing the cutter cassette, thereby shifting the cutting blade into an operative state.

16. The cutting device according to Claim 10, wherein the driving mechanism is driven manually.

17. The cutting device according to Claim 11, wherein at least one holder is provided with sides facing the side face of the cutter cassette so that the holder is engaged with the at least one gear.